05 – Homework 15 points

In this assignment you will be doing both CRUD operations and Selects on the database Lecture05.

We will be grading this in large part on the selects that you are writing ( IE it is the selects that let see if you did the CRUD operation correctly ). You should closely examine your selects, and look at the data in the DB to assure yourself that your CRUD operations performed as expected.

It is typical that you will make an error in your CRUD operations. This may modify the database so that your subsequent commands do not do what you expect them to. ( IE when you make a change to the DB it is stored in the file you opened at the start of your session)

There are two ways around this problem.

1 – Make a backup copy of Lecture05 ( Say Lecture05BU ) when you want to start work:

Copy Lecture05BU to Lecture05

.open Lecture05

2 – At the beginning of your command file – enter the database command:

**BEGIN;**

If you make an error and want to start over Either

Enter the command **ROLLBACK;**

Or – CTRL C out of the database, start back up, and reload your file

1 – Create a new ticket on an existing customer ( George Washington ). On that ticket, Create one package going from KPDX to KLAX. The package weight is 300 lb. Color is ‘Wood’. Store in package room #1 in KPDX. To make this a slightly easier query you may hard code George’s Shipper.ID in the create record ( 26) . You may not hard code any other ID. Remember that the ticketNumber is a timestamp of ‘now’

2 – Write a query that finds all packages in any package room in KPDX that needs to go to KLAX . Provide the weight for each package, and the combined weight for all packages returned in the query.   
Columns should be: **RoomNumber BarCode PackageWeight TotalWeight**

3 – Write an Update command to place all the packages identified in #2 above into the airplane with tail number ‘561DS’ You may hardcode the id for the airplane ( #2)

4 – Write a query to show the number of packages, and the total weight of all packages in ‘561DS’   
Columns should be**: NumPackages TotalWeight**

5 – Launch the plane to update the airplane record to say it is on the way to KLAX. You may not use the airplane.ID in this Update. ( But you can use the tail number)

6 – Write a query to show all airplanes in the air, the number of packages, and the weight of all packages on the plane.

Columns should be: **TailNumber Destination NumPackages TotalWeight**

7 – 561DS has landed at KLAX. Update your DB appropriately

8A – Write a query to display room number, barcode, and weight of each package in all package room at ‘KLAX’

Columns should be**: RoomNumber BarCode GroundWeight**

8B – Write a query to display tail number, barcode, and package weight on each package on all planes that are on the ground at KLAX.

Columns should be: **TailNumber BarCode OnPlaneWeight**

9. Update the database to show that the packages in ‘561DS’ have been moved to storage room #2

10 – Repeat query 8A and 8B ( IE cut and paste the queries into #10 )

11 – The customer has picked up barcode 100026 Delete that package from the DB

12 – Repeat query 8A and 8B